

100

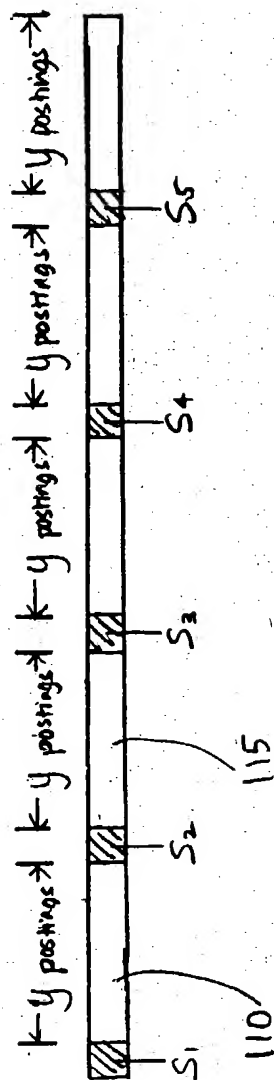


FIG. 1

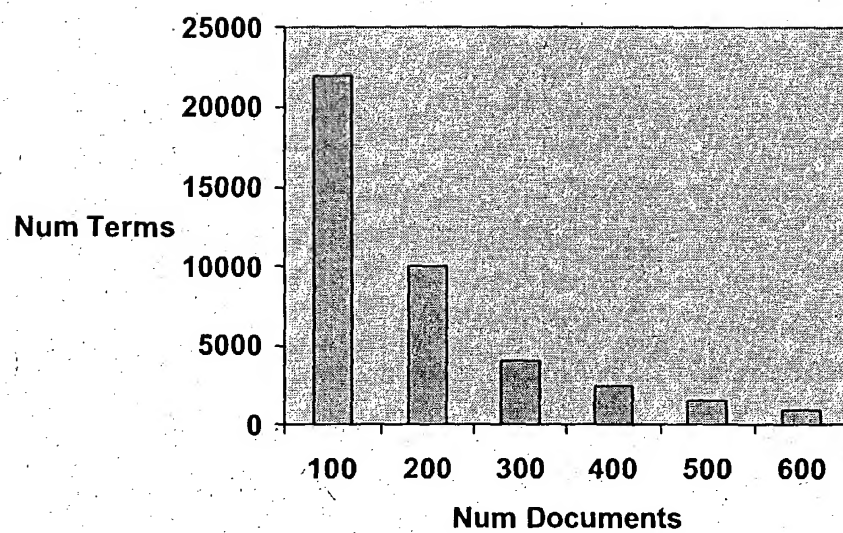


FIG. 2

300

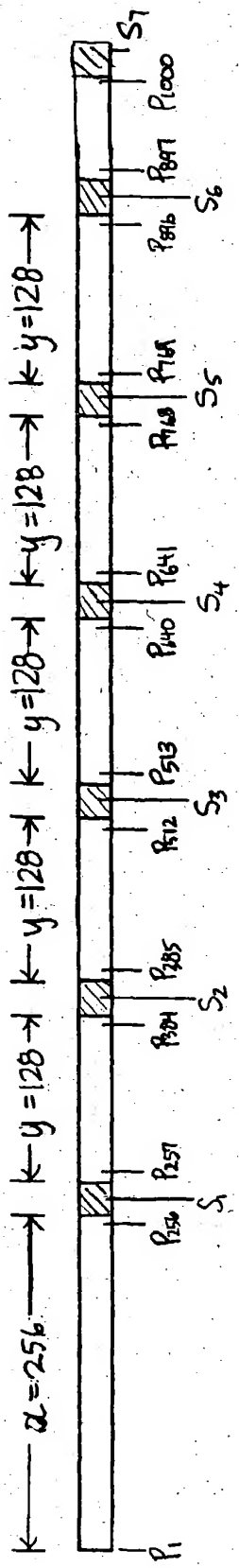


FIG. 3

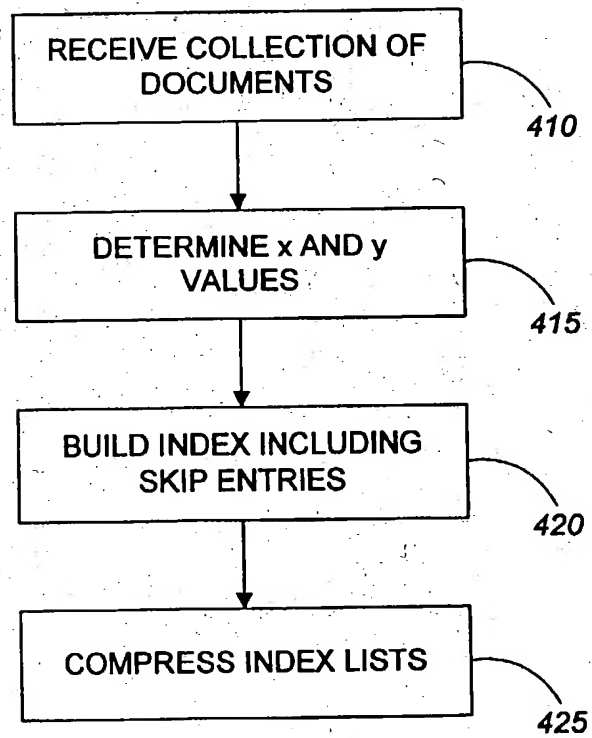


FIG. 4

500

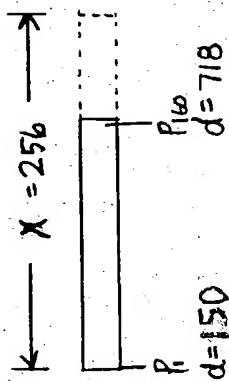


FIG 5A

502

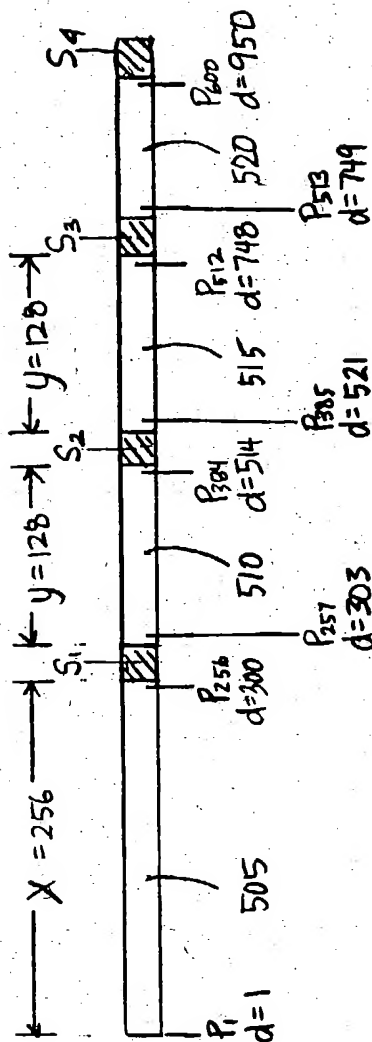


FIG 5B

Inverted List for OPTICIAN $\langle d, f, [o_1, \dots, o_f] \rangle$ — 500

$\underbrace{\langle 150, 1, [16] \rangle}_{P_i} \langle 381, 2, [8, 17] \rangle \langle 523, 1, [17] \rangle \dots \underbrace{\langle 718, 3, [4, 9, 15] \rangle}_{P_{160}}$

FIG. 6A

Preliminary Results $(d_{pr1}, \dots, d_{pr160})$

$(150, 381, 523, \dots, 723)$

$\underbrace{d_{pr1}}_{\substack{d_{pr1} \\ d_{pr2} \\ d_{pr3} \\ \vdots \\ d_{pr160}}}$

FIG. 6B

Inverted List for CALIFORNIA $\langle d, f, [o_1, \dots, o_f] \rangle$ — 502

$\underbrace{\langle 1, 2, [8, 21] \rangle}_{P_i} \dots \langle 150, 1, [6] \rangle \dots \langle 300, 1, [9] \rangle \underbrace{\langle 303, a_2 \rangle}_{S_1} \dots \langle 381, 1, [25] \rangle \dots \underbrace{\langle 514, 2, [6, 12] \rangle}_{S_2} \dots \underbrace{\langle 521, a_3 \rangle}_{ds_2}$

$\langle 521, 1, [8] \rangle \dots \langle 748, 2, [10, 23] \rangle \underbrace{\langle 749, a_4 \rangle}_{S_3} \dots \underbrace{\langle 950, 2, [5, 11] \rangle}_{P_{600}} \underbrace{\langle 950 \rangle}_{S_4} \underbrace{\dots}_{ds_4}$

FIG. 7

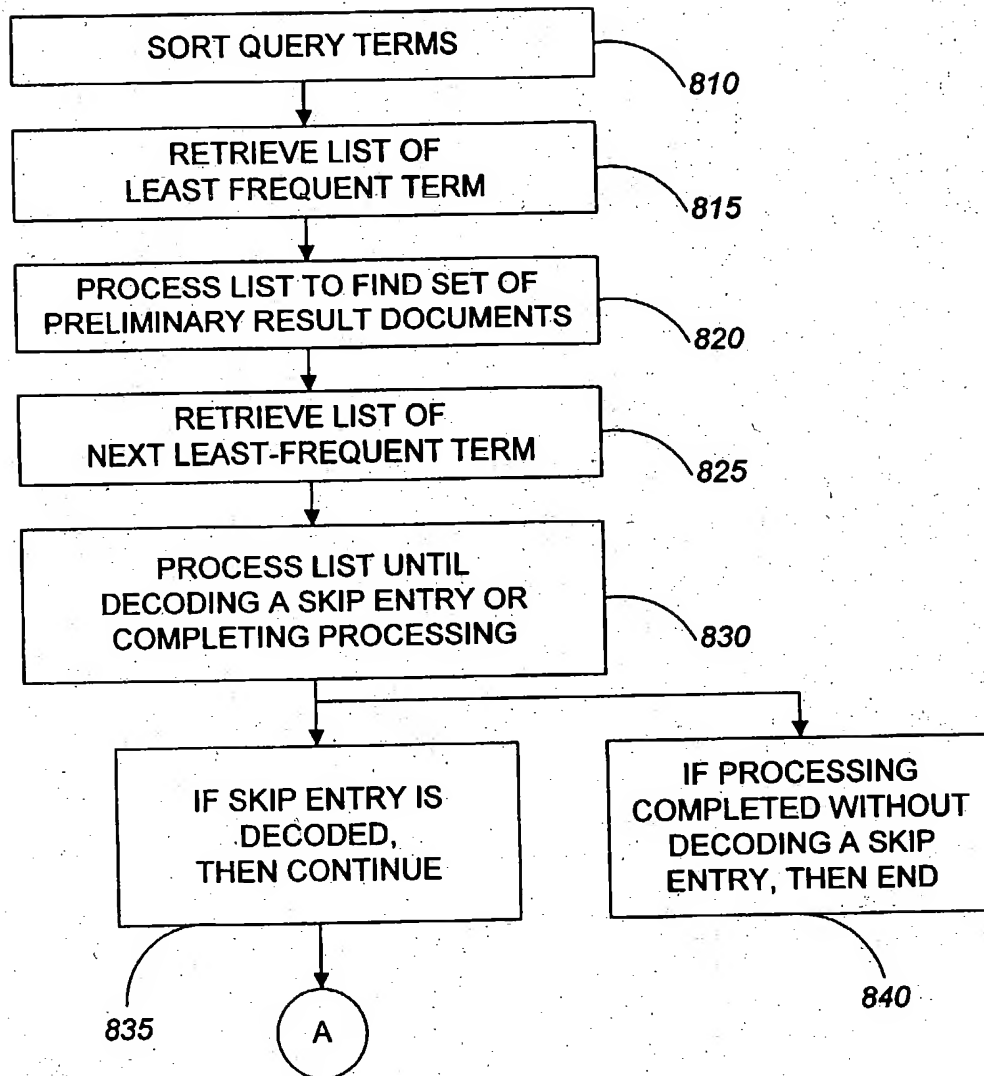


FIG. 8A

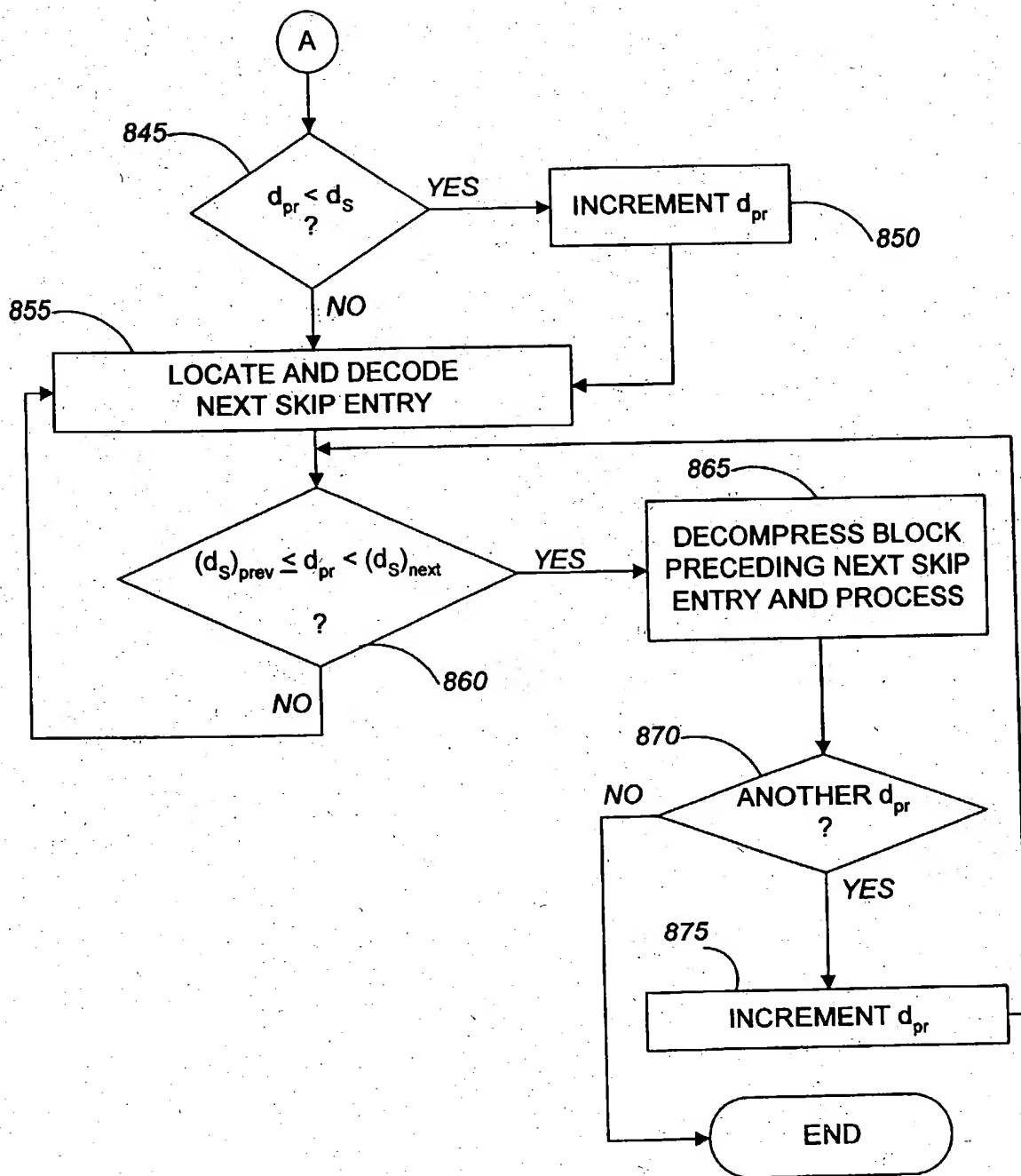


FIG. 8B